

GOVERNMENT LOCKS AND DAMS.

LETTER

FROM

THE ACTING SECRETARY OF WAR,

TRANSMITTING,

IN RESPONSE TO SENATE RESOLUTION OF JULY 13, 1914 (S. RES. 414), DATA RELATIVE TO LOCKS AND DAMS CONSTRUCTED AND OPERATED BY THE FEDERAL GOVERNMENT.

JULY 27, 1914.—Ordered to lie on the table and to be printed.

WAR DEPARTMENT,  
Washington, July 23, 1914.

The PRESIDENT OF THE SENATE.

SIR: In compliance with Senate resolution dated July 13, 1914, requesting a list of locks and dams constructed and operated by the Federal Government with the respective rivers or channels in which they are located, including the cost of construction of each, the cost of maintenance to date, the cost of maintenance for the last year for which figures are available, the distance of each from the mouth or source of the river, the date when each lock and dam was finished and made available for use, and the tonnage passing through each lock for the last year for which statistics are available; also a list of locks and dams now under construction, I have the honor to transmit herewith two tables, republishing the data contained in Senate Documents Nos. 470 and 483, Sixty-third Congress, second session, and containing the additional data requested by above-mentioned resolution.

The data contained in the above-mentioned documents and the additional data furnished herewith is the latest obtainable. The reports for the fiscal year ending June 30, 1914, have not yet been compiled.

Very respectfully,

HENRY BRECKINRIDGE,  
*Acting Secretary of War.*

TABLE NO. 1.—Statement showing location, number, miles from mouth, number of men employed, cost of construction, cost of operation for fiscal year 1913, and tonnage passing through each lock and dam in operation July 1, 1913, called for by Senate resolution dated July 13, 1914.

Location.	No.	Miles from mouth.	Men.	Cost of construction.	Cost of operation fiscal year 1913.	Tonnage passing through lock (short tons).
CONGAREE RIVER.						
Granby, S. C.....	(1)	51.00	.....	\$182,983.52	\$8,921.91	(2)
COOSA RIVER.						
Greensport, Ala.....	1	158.00	1	106,173.96	1,560.00	521
Francis, Ala.....	2	152.00	1	159,166.00	1,200.00	696
Do.....	3	151.00	1	110,744.47	1,800.00	512½
TOMBIGBEE RIVER.						
McGrew Shoals, Ala.....	1	111.00	4	554,000.00	8,947.74	163,111
Demopolis, Ala.....	4	230.60	4	403,630.00	8,588.83	53,743
WARRIOR RIVER						
Cedarville, Ala.....	5	246.20	3	429,202.00	8,820.00	56,465
Sawyer ville, Ala.....	6	266.70	3	370,829.00	9,355.94	41,693
Pickens Bar, Ala.....	7	282.30	3	225,600.00	24,669.68	21,624
Log Shoals, Ala.....	8	298.80	3	212,400.00	23,783.38	22,944
Mikes Bar, Ala.....	9	315.20	3	202,000.00	15,471.60	24,891
Tuscaloosa, Ala.....	10	361.90	2	244,500.00	4,071.88	23,545
Do.....	11	362.20	2	170,000.00	3,880.00	23,250
Do.....	12	363.20	2	160,500.00	3,880.00	23,223
Tidewater, Ala.....	13	370.10	3	203,700.00	4,240.00	3,790
Arnolds Shoal, Ala.....	14	373.50	3	413,852.00	3,600.00	3,625
Rose Shoals, Ala.....	15	380.20	3	428,803.00	2,700.00	2,850
PLAQUEMINE BAYOU.						
Plaquemine, La.....	(4)	220.00	12	1,302,006.38	27,043.83	83,345
MISSISSIPPI RIVER.						
Moline, Ill.....	(5)	2,078.70	7	198,763.42	5,908.79	10,408
BAYOU TECHE, LA.						
Bayou Teche, La.....	(6)	71.00	3	257,720.48	(7)	(7)
INLAND WATERWAY FRANKLIN TO MERMEN- TAU, LA.						
Schooner Bayou, La.....	(8)	5.00	3	40,018.10	774.42	1,700
TRINITY RIVER.						
Crisp, Tex.....	6	470.50	2	.....	4,190.87	(9)
Ferris, Tex.....	4	482.50	2	.....	355.97	(9)
Blam, Tex.....	1	499.50	2	.....	1,937.24	(9)
OUACHITA RIVER.						
Roland Raft, Ark.....	6	238.00	4	566,072.00	2,500.00	(10)
Franklin Shoals, Ark.....	8	297.00	4	596,246.00	3,456.03	(10)
WHITE RIVER, ARK.						
Near Batesville, Ark.....	1	299.00	.....	278,782.07	9,851.38	4,135
8 miles above Batesville, Ark.....	2	308.70	.....	297,822.45	15,624.03	13,882
17 miles above Batesville, Ark.....	3	318.60	.....	237,169.99	7,451.17	5,191

<sup>1</sup> Granby, S. C.

<sup>2</sup> Lock and dam out of commission owing to damage by flood; no commerce passed through during the year.

<sup>3</sup> Distances are from mouth Mobile River.

<sup>4</sup> Plaquemine Lock.

<sup>5</sup> Moline Lock.

<sup>6</sup> Keystone Lock.

<sup>7</sup> Placed under operating and care July 1, 1913; no expenditures made or record of tonnage prior to that date.

<sup>8</sup> Schooner Bayou.

<sup>9</sup> Locks located in upper section of river; no navigation and no commerce passed through them.

<sup>10</sup> No commercial tonnage passed through these locks during fiscal year.

TABLE NO. 1.—Statement showing location, number, miles from mouth, number of men employed, cost of construction, cost of operation for fiscal year 1913, and tonnage passing through each lock and dam in operation July 1, 1913, called for by Senate resolution dated July 13, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.	Cost of operation fiscal year 1913.	Tonnage passing through lock (short tons).
OSAGE RIVER.						
Brenekes Shoal, Mo.....	1	7.00	5	\$627,977.79	\$5,788.88	3,100
CUMBERLAND RIVER.						
Fox Bluff, Tenn.....	A	151.20	2	390,600.00	10,942.13	56,346
Nashville, Tenn.....	1	190.00	12	355,004.96	3,459.75	71,868
Madison, Tenn.....	2	201.60	12	337,763.14	9,513.38	101,925
Hendersonville, Ky.....	3	228.60	12	341,228.87	35,786.66	83,614
Gallatin, Tenn.....	4	237.30	12	388,623.60	2,975.68	80,382
Lebanon, Tenn.....	5	264.30	12	372,058.42	2,399.26	73,849
Hartsville, Tenn.....	6	282.20	12	327,117.08	2,354.08	75,229
Carthage, Tenn.....	7	299.20	12	347,181.51	2,126.91	62,390
Burnside, Ky.....	21	486.80	2	374,076.75	3,344.40	33,818
TENNESSEE RIVER.						
Elk River Shoals.....	A	286.30	1	104,907.00	(2)	(2)
Do.....	B	285.00	1	137,694.00	(2)	(2)
Muscle Shoals, Tenn.....	1	277.00	1	116,573.00		
Do.....	2	275.10	1	66,055.00		
Do.....	3	273.20	1	137,694.00		
Do.....	4	271.60	1	115,287.00		
Do.....	5	269.70	1	137,407.00	46,393.14	5,520
Do.....	6	265.60	1	148,611.00		
Do.....	7	264.20	1	137,407.00		
Do.....	8	263.50	1	115,000.00		
Do.....	9	263.20	1	115,000.00		
Colbert Shoals Canal, Tenn.....		226.50	4	*731,196.00	38,659.37	31,942
MONONGAHELA RIVER.						
Pittsburgh, Pa. <sup>4</sup> .....	1	1.90	22	*404,900.00	21,247.15	5,674,398
Braddock, Pa. <sup>4</sup> .....	2	11.20	26	*681,914.85	25,487.14	9,473,605
Elizabeth, Pa. <sup>4</sup> .....	3	23.80	26	*577,193.69	26,328.30	11,125,338
North Charleroi, Pa. <sup>4</sup> .....	4	41.20	18	*526,651.30	16,545.54	7,923,110
Brownsville, Pa. <sup>4</sup> .....	5	56.70	13	*754,564.73	13,408.47	1,864,831
Rices Landing, Pa. <sup>4</sup> .....	6	68.70	4		4,131.82	233,859
Near Geneva, Pa. <sup>4</sup> .....	7	82.50	2		2,012.42	123,449
Big Dunkard Creek, Pa.....	8	87.50	2	245,900.00	2,084.81	122,683
Hoards Rock, W. Va.....	9	93.30	2	191,000.00	2,034.95	159,053
Morgantown, Pa.....	10	102.60	2	228,358.89	2,201.97	102,377
Uffington, W. Va.....	11	104.90	2	245,582.66	2,008.33	106,558
One-half mile below Little Falls, W. Va.....	12	109.80	2	218,464.60	2,095.62	109,250
1½ miles above Little Falls, W. Va.....	13	111.80	2	208,604.76	2,054.51	108,018
Lowsville, W. Va.....	14	115.50	2	228,040.12	2,010.12	107,979
Hoult, W. Va.....	15	124.10	2	193,742.77	2,076.95	1,362
ALLEGHENY RIVER.						
Pittsburgh, Pa.....	1	1.70	13	594,373.07	13,522.09	438,393
Aspinwall, Pa.....	2	7.00	5	544,947.90	4,974.82	444,770
Springdale, Pa.....	3	16.70	2	542,348.25	4,224.45	41,954
LITTLE KANAWHA RIVER.						
Parkersburg, W. Va.....	1	3.50	2	70,314.00	2,740.02	66,912
Slate, W. Va.....	2	14.50	2	60,623.00	2,939.08	88,148
Elizabeth, W. Va.....	3	25.50	2	60,747.00	2,238.58	80,182
Palestine, W. Va.....	4	31.00	2	58,680.00	3,129.52	76,334
Ivan, W. Va.....	5	40.50	2	167,875.00	2,555.17	72,153

<sup>1</sup> Two extra men employed during rafting season.

<sup>2</sup> No dams in operation during fiscal year.

<sup>3</sup> Masonry only.

<sup>4</sup> Nos. 1-7 were purchased in 1897 from Monongahela Navigation Co. for \$3,761,615.46, including floating plant. Subsequently \$21,465.10 and \$89,159.19 were expended for improvements at Dams 3 and 6, respectively.

<sup>5</sup> Estimated cost of reconstruction—not completed.

<sup>6</sup> Cost of new locks and dams.

TABLE NO. 1.—Statement showing location, number, miles from mouth, number of men employed, cost of construction, cost of operation for fiscal year 1913, and tonnage passing through each lock and dam in operation July 1, 1913, called for by Senate resolution dated July 13, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.	Cost of operation fiscal year 1913.	Tonnage passing through lock (short tons).
KANAWHA RIVER.						
Montgomery, W. Va.....	2	84.50	5	<sup>1</sup> \$353,608.00	\$6,969.27	24,161
Riverside, W. Va.....	3	79.50	5	<sup>2</sup> 490,000.00	7,503.61	133,670
Dickinson, W. Va.....	4	73.25	8	<sup>2</sup> 275,000.00	8,920.65	424,015
Marmet, W. Va.....	5	67.25	8	<sup>2</sup> 275,000.00	8,826.63	618,197
Charleston, W. Va.....	6	54.00	8	<sup>1</sup> 337,625.00	9,977.34	984,425
St. Albans, W. Va.....	7	44.00	8	<sup>1</sup> 341,136.00	10,278.09	930,259
Winfield, W. Va.....	8	36.00	8	<sup>1</sup> 281,975.00	9,904.89	1,297,018
Woods, W. Va.....	9	25.50	8	<sup>2</sup> 307,120.00	13,225.41	1,459,235
Robertsburg, W. Va.....	10	19.00	8	<sup>2</sup> 282,006.00	9,047.47	1,460,158
Point Pleasant, W. Va.....	11	1.75	8	<sup>2</sup> 637,803.00	10,105.59	1,534,038
BIG SANDY RIVER.						
Catlettsburg, Ky.....	1	.30	3	318,417.64	4,002.23	179,762
Pritchard, W. Va.....	2	1.00	3	278,893.10	3,595.64	179,057
Louisa, Ky.....	3	26.50	3	396,304.98	4,047.93	176,755
Levisa Fork, Ky.....	1	35.50	3	250,128.70	3,721.57	50,126
Tug Fork, Ky.....	1	31.00	3	268,452.26	4,036.96	126,811
KENTUCKY RIVER.						
Carrollton, Ky.....	1	4.00	2	220,300.17	1,141.60	121,645
Lockport, Ky.....	2	31.00	2	151,983.01	1,140.00	102,053
Gest, Ky.....	3	42.00	2	135,857.54	1,144.80	96,165
Frankfort, Ky.....	4	65.00	2	131,607.96	1,549.96	111,308
Tyrone, Ky.....	5	82.20	2	137,436.85	1,150.00	57,915
Salvisa, Ky.....	6	96.20	2	314,864.70	1,162.40	52,027
High Bridge, Ky.....	7	117.00	2	290,768.44	971.50	45,476
Hickman, Ky.....	8	139.20	2	275,463.16	1,140.00	50,781
Valley View, Ky.....	9	157.00	2	237,645.75	1,180.20	51,029
Ford, Ky.....	10	176.50	2	322,677.16	1,102.90	51,457
College Hill, Ky.....	11	200.00	3	296,592.95	1,591.60	52,903
Irvine, Ky.....	12	220.80	3	425,693.33	1,162.40	62,699
Evelyn, Ky.....	13	239.50	3	451,376.52		
OHIO RIVER.						
West Bellevue, Pa.....	1	4.70	17	973,689.87	19,189.41	3,773,782
Coraopolis, Pa.....	2	9.00	17	977,221.68	14,491.83	3,215,194
Glen Osborne, Pa.....	3	10.90	16	1,157,236.08	13,110.89	2,716,708
Legionville, Pa.....	4	18.60	16	1,085,973.13	14,653.00	2,070,122
Rochester, Pa.....	5	23.90	16	1,086,049.81	13,149.32	2,187,524
Merrill, Pa.....	6	28.80	16	1,123,720.15	13,575.55	2,195,310
Kenilworth, W. Va.....	8	46.10	14	1,166,265.83	13,903.12	1,817,487
Brilliant, Ohio.....	11	76.30	13	1,162,087.72	16,299.69	(*)
McMechen, W. Va.....	13	95.80	13	1,210,183.24	16,307.20	(*)
Vienna, W. Va.....	18	179.30	9	910,716.18	13,703.59	593,001
Hogsett, W. Va.....	26	278.00	.....	1,072,344.98	11,638.12	1,137,193
Pernbank, Ohio.....	37	484.30	16	1,175,157.91	31,372.86	1,773,065
Louisville, Ky., Louisville & Portland Canal.....	41	604.00	17	<sup>3</sup> 816,878.95	19,991.74	1,455,485
WABASH RIVER.						
Mount Carmel, Ind.....	(*)	95.10	1	260,000.00	605.00	10,807
GREEN RIVER.						
Spottsville, Ky.....	1	8.50	3	179,110.09	2,157.00	662,352
Rumsey, Ky.....	2	62.80	3	455,774.87	2,157.00	484,722
Rochester, Ky.....	3	108.50	3	121,377.44	2,097.00	426,134
Woodbury, Ky.....	4	149.50	2	125,717.63	1,557.00	366,189
Glenmore, Ky.....	5	167.50	2	173,315.79	1,557.00	277,339
Brownsville, Ky.....	6	181.00	2	168,415.43	1,557.00	170,197

<sup>1</sup> Actual cost of lock (and dam?).

<sup>2</sup> Estimated cost of new lock.

<sup>3</sup> Actual cost of lock and dam.

<sup>4</sup> Not ascertained.

<sup>5</sup> Cost of lock only. The total cost of lock, canal, dam, and rapids improvement is about \$5,578,000.

<sup>6</sup> Grand Rapids.



TABLE No. 1.—Statement showing location, number, miles from mouth, number of men employed, cost of construction, cost of operation for fiscal year 1913, and tonnage passing through each lock and dam in operation July 1, 1913, called for by Senate resolution dated July 13, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.	Cost of operation fiscal year 1913.	Tonnage passing through lock (short tons).
BARREN RIVER, KY.						
Greencastle, Ky.....	1	15.00	2	\$135,734.39	\$1,557.00	303,684
ROUGH RIVER, KY.						
Livermore, Ky.....	1	8.00	1	72,186.35	1,125.00	31,318
MUSKINGUM RIVER. <sup>1</sup>						
Marietta, Ohio.....	1	.25	2	* 327,500.00	1,382.07	27,351
Devols, Ohio.....	2	5.75	1	.....	2,809.61	8,093
Lowell, Ohio.....	3	13.87	1	.....	3,254.54	7,387
Beverly, Ohio.....	4	24.71	1	.....	1,191.69	7,863
Lake Chute, Ohio.....	5	32.97	1	.....	1,397.59	7,708
Stockport, Ohio.....	6	39.11	1	.....	2,832.34	6,603
McConnelsville, Ohio.....	7	48.22	1	.....	2,249.88	5,925
Eagleport, Ohio.....	8	56.00	1	.....	12,844.95	23,560
Philo, Ohio.....	9	66.84	1	* 86,000.00	5,011.12	20,204
Zanesville, Ohio.....	10	75.82	2	.....	4,404.95	32,129
Dresden, Ohio.....	11	84.14	2	* 143,095.66	793.15	230
FOX RIVER, WIS.						
De Pere, Wis.....	1	7.08	1	43,497.39	426.30	53,561
Little Kaukauna, Wis.....	2	12.95	1	31,362.83	426.30	53,158
Rapids Croche, Wis.....	3	18.93	1	15,912.91	.....	.....
Kaukauna, fifth.....	4	22.76	1	13,309.90	426.30	53,551
Kaukauna, fourth.....	5	23.07	1	37,536.37	284.20	53,432
Kaukauna, third.....	6	23.24	1	39,948.41	284.20	53,477
Kaukauna, second.....	7	23.41	* 1	24,312.77	284.20	53,630
Kaukauna, first.....	8	23.62	1	70,812.19	342.56	53,784
Kaukauna guard.....	8	24.00	1	12,630.30	584.64	53,784
Combined lower little chute.....	9	25.40	1	102,303.82	213.15	46,862
Combined upper.....	10	25.43	1	.....	213.15	46,862
Little chute, second.....	11	26.37	1	48,555.36	426.30	48,715
Little chute, first.....	12	25.55	1	24,779.83	426.30	48,715
Cedars.....	13	27.33	1	53,320.25	426.30	49,282
Appleton, fourth.....	14	30.73	1	64,349.53	426.30	41,618
Appleton, third.....	15	31.39	1	32,238.39	213.15	41,618
Appleton, second.....	16	31.58	1	22,939.54	213.15	41,638
Appleton, first.....	17	31.94	* 1	96,485.17	927.21	42,570
Menasha.....	18	37.00	* 1	42,880.30	854.13	42,331
Eureka.....	19	80.87	1	61,403.66	395.85	3,153
Berlin.....	20	89.18	1	59,118.12	548.10	1,557
White River.....	21	99.17	1	75,995.58	395.85	1,009
Princeton.....	22	108.57	1	62,843.53	395.85	527
Grand River.....	23	129.27	1	65,436.29	395.85	291
Montello.....	24	132.60	1	4,551.08	304.50	92
Governor Bend.....	25	156.71	1	8,892.00	426.30	.....
Fort Winnebago.....	26	160.88	1	12,088.45	376.82	440
Portage.....	27	163.05	* 1	12,161.13	376.82	36
ILLINOIS RIVER.						
Kampsville, Ill.....	.....	31.40	9	444,100.00	76,544.44	46,388
La Grange, Ill.....	.....	77.60	8	485,034.00	20,191.66	9,143
ILLINOIS AND MISSISSIPPI CANAL.						
Bureau, Ill.....	1	7.50	1	43,263.04	.....	.....
Do.....	2	1.30	1	43,598.60	.....	.....
Do.....	3	2.00	1	40,687.10	.....	.....
Do.....	4	3.50	1	39,688.37	.....	.....
Do.....	5	4.70	1	40,596.20	.....	.....

<sup>1</sup> Original locks and dams purchased from State of Ohio, 1887. First cost approximately \$1,300,000.

<sup>2</sup> Cost of new lock enlarged to admit Ohio River boats.

<sup>3</sup> Cost of new lock.

<sup>4</sup> Cost of new lock and dam.

<sup>5</sup> During navigation season.

<sup>6</sup> Live stock (head).

<sup>7</sup> Mile from east end of canal.

TABLE No. 1.—Statement showing location, number, miles from mouth, number of men employed, cost of construction, cost of operation for fiscal year 1913, and tonnage passing through each lock and dam in operation July 1, 1913, called for by Senate resolution dated July 13, 1914—Continued.

Location.	No.	Miles from mouth.	Men.	Cost of construction.	Cost of operation fiscal year 1913.	Tonnage passing through lock (short tons).
ILLINOIS AND MISSISSIPPI CANAL—continued.						
Tiskilwa, Ill.....	6	6.50	1	\$42,944.48		
Do.....	7	7.20	1	37,347.55		
Do.....	8	8.20	1	36,930.86		
Do.....	9	8.50	1	32,747.89		
Do.....	10	10.20	1	34,549.94		
Do.....	11	10.70	1	37,154.43		
Do.....	12	11.50	1	36,476.36		
Wyandot, Ill.....	13	12.50	1	32,869.11		
Do.....	14	13.20	1	31,972.98		
Do.....	15	13.90	1	30,324.44		
Do.....	16	13.90	1	34,607.85		
Do.....	17	14.20	1	32,975.11		
Do.....	18	15.50	1	35,901.29		
Do.....	19	16.10	1	34,620.29		
Do.....	20	17.30	1	38,292.39	\$204,499.83	51,050
Do.....	21	17.60	1	39,632.51		
Mineral, Ill.....	22	28.90	1	41,863.97		
Atkinson, Ill.....	23	37.90	1	41,356.46		
Geneseo, Ill.....	24	48.10	1	47,034.32		
Green River, Ill.....	25	53.50	1	40,479.10		
Do.....	26	54.50	1	40,404.75		
Do.....	27	57.00	1	39,077.16		
Colona, Ill.....	28	59.40	1	30,786.53		
Do.....	29	61.70	1	36,631.54		
Milan, Ill., 1 mile east.....	35	70.50	1	71,588.09		
Milan, Ill., 1 mile west.....	36	73.00	1	58,711.44		
Mouth Rock River.....	37	75.00	1	85,468.31		
Rock Falls, Ill.....	(1)		1	32,712.57		
Rock Falls, Ill (in Rock River).....			1	168,650.00		
ST. MARYS RIVER, MICH.						
Sault Ste. Marie, Mich.....		50.00	100	$\left\{ \begin{array}{l} 2,983,335.00 \\ 2,837,338.00 \\ 4,910,940.00 \\ 1,018,465.00 \end{array} \right.$	151,748.43	36,425,015
GALENA RIVER.						
Galena, Ill.....		8.50	2 or 3	100,000.00	5,854.04	4,965
COLUMBIA RIVER.						
Cascades, Oreg.....		155.00	4	3,823,273.81	11,410.42	33,219
YAMHILL RIVER.						
Lafayette, Oreg.....		8.00	1 or 2	72,164.83	1,300.33	588

<sup>1</sup> Guard lock.<sup>2</sup> Weitzel Lock.<sup>3</sup> Poe Lock.<sup>4</sup> Canal to Poe Lock.<sup>5</sup> Canal to Weitzel Lock.

## NOT REPORTED.

Congaree River, near Columbia, S. C., number of men.

Trinity River, Locks and Dams Nos. 1, 4, 6, cost of construction.

White River, Locks and Dams Nos. 1, 2, 3, number of men.

Kanawha River, Locks and Dams Nos. 2, 6, 7, 8, actual cost of dam; Locks and Dams Nos. 3, 4, 5, actual cost of lock and dam.

Ohio River, Lock and Dam No. 26, number of men.

Fox River, Locks and Dams Nos. 24 and 25, cost of construction.

TABLE NO. 2.—Statement showing total cost of maintenance to June 30, 1913, date of completion, and locks and dams now under construction by the Federal Government, called for by Senate resolution of July 13, 1914.

Stream and location.	Cost of maintenance to June 30, 1913.	Date of completion.	Locks and dams now under construction at—
Hudson River, N. Y.			Troy, N. Y.
Chesapeake and Albemarle Canal.	\$1,628.27	( <sup>1</sup> )	
Cape Fear River, above Wilmington, N. C.			Kings Bluff, N. C.
Do.			Browns Landing, N. C.
Congaree River, at Granby, S. C.	53,045.59	Apr. 7, 1906	
Coosa River:			
Lock 1, Greensport, Ala.	204,036.15	June 30, 1890	Lincoln, Ala. Stemly, Ala. Near Wetumpka, Ala.
Lock 2, Francis, Ala.			
Lock 3, Francis, Ala.			
Lock, Mayos Bar, Rome, Ga.			
Lock 4.			
Lock 5.			
Lock 31.			
Tombigbee River:			
Lock 1, McGrew Shoals (see Warrior River below).		Sept. 6, 1908	
Lock 2.			
Lock 3.			
Lock 4, Demopolis, Ala.		Dec. 1, 1908	Clear Creek, Ala. Griffin Landing, Ala.
Warrior River:			
Lock 5, Cedarville, Ala.	296,867.89	Sept. 1, 1908	
Lock 6, Sawyerville, Ala.		Oct. 1, 1908	
Lock 7, Pickens Bar, Ala.		Nov. 7, 1903	
Lock 8, Log Shoals, Ala.		Dec. —, 1902	
Lock 9, Mikes Bar, Ala.		do.	
Black Warrior:			
Lock 10, Tuscaloosa, Ala.		Nov. —, 1895	
Lock 11, Tuscaloosa, Ala.		do.	
Lock 12, Tuscaloosa, Ala.		do.	
Lock 13, Tidewater, Ala.		July 4, 1905	
Lock 14, Arnolds Shoal.		Mar. 29, 1910	
Lock 15, Rose Shoals.		May 2, 1910	
Lock 16.			23.5 miles above Tuscaloosa, Ala.
Lock 17.			25 miles above Tuscaloosa, Ala.
Lock 18.			Do.
Plaquemine Bayou, Plaquemine, La.	83,961.17	July 1, 1909	
Mississippi River:			
Keokuk, Iowa.	\$1,484,404.25	Aug. 22, 1877	
Moline, Ill.	49,046.71	Dec. 23, 1907	
Lock 2, St. Paul, Minn.	13,601.65	July 1, 1907	
Lock 1.			St. Paul, Minn.
Teche Bayou, La., Keystone Lock.		June 30, 1913	
Schooner Bayou, La.	774.42	Mar. 1, 1913	
Brazos River, Tex.:			
Lock No. 3.			Plans not yet approved no work done.
Lock No. 6.			Do.
Lock No. 8.			7 miles below Waco, Tex.
Sabine-Neches Canal, Tex.			(Hidalgo Falls, Tex. Guard lock.
Trinity River, Tex.:			
Lock 1, Elam, Tex.	27,163.58	Mar. 1, 1909	
Lock, Parsons Slough.		Jan. 16, 1911	
Lock 6, Crisp, Tex.		Apr. 8, 1911	
Lock 4, Ferris, Tex.		June —, 1913	
Lock 2.			
Lock 3.			23 miles below Dallas, Tex.
Lock 5.			485½ miles above mouth; land not yet furnished.
Lock 7.			478 miles above mouth; land not yet furnished.
Lock, Hurricane Shoals.			49 miles below Dallas, Tex.
Lock, White Rock Shoals.			Hurricane Shoals; 243 miles below Dallas.
Jefferson-Shreveport waterway			White Rock Shoals; 334 miles below Dallas.
Big Sunflower River, Miss.			Foot of Caddo Lake, La. and Tex.
			Little Callao Landing, Miss.

<sup>1</sup> Purchased by the United States Apr. 30, 1913, at a cost of \$500,000.<sup>2</sup> Total for all locks and dams, Warrior, Black Warrior, and Tombigbee Rivers.<sup>3</sup> This amount includes cost of operation and maintenance of old Des Moines Rapids Canal.

TABLE No. 2.—Statement showing total cost of maintenance to June 30, 1913, date of completion, and locks and dams now under construction by the Federal Government, called for by Senate resolution of July 13, 1914—Continued.

Stream and location.	Cost of maintenance to June 30, 1913.	Date of completion.	Locks and dams now under construction at—
<b>Ouachita River, Ark. and La.:</b>			
Lock and Dam No. 2.....	.....	.....	Harrisonburg, La.
Lock and Dam No. 3.....	.....	.....	Near Columbia, La.
Lock and Dam No. 4.....	.....	.....	Near Monroe, La.
Lock and Dam No. 6, Roland Raft, Ark.....	\$2,359.39	Jan. 25, 1913	
Lock and Dam No. 7.....	.....	.....	
Lock and Dam No. 8, Franklin Shoals.....	2,914.21	Oct. 1, 1912	Perigee Shoals, Ark.
<b>White River, Ark.:</b>			
Lock 1, near Batesville.....	245,210.90	Jan. 16, 1904	
Lock 2, 8 miles above Batesville.....		Feb. 16, 1905	
Lock 3, 17 miles above Batesville.....		Feb. 1, 1908	
<b>Illinois and Mississippi Canal:</b>			
Lock 1, Bureau, Ill.....	1,166,851.39	Oct. 24, 1907	
Lock 2, Bureau, Ill.....		do	
Lock 3, Bureau, Ill.....		do	
Lock 4, Bureau, Ill.....		do	
Lock 5, Bureau, Ill.....		do	
Lock 6, Tiskilwa, Ill.....		do	
Lock 7, Tiskilwa, Ill.....		do	
Lock 8, Tiskilwa, Ill.....		do	
Lock 9, Tiskilwa, Ill.....		do	
Lock 10, Tiskilwa, Ill.....		do	
Lock 11, Tiskilwa, Ill.....		do	
Lock 12, Tiskilwa, Ill.....		do	
Lock 13, Wyandot, Ill.....		do	
Lock 14, Wyandot, Ill.....		do	
Lock 15, Wyandot, Ill.....		do	
Lock 16, Wyandot, Ill.....		do	
Lock 17, Wyandot, Ill.....		do	
Lock 18, Wyandot, Ill.....		do	
Lock 19, Wyandot, Ill.....		do	
Lock 20, Wyandot, Ill.....		do	
Lock 21, Wyandot, Ill.....		do	
Lock 22, Mineral, Ill.....		do	
Lock 23, Atkinson, Ill.....		do	
Lock 24, Geneseo, Ill.....		do	
Lock 25, Green River, Ill.....		do	
Lock 26, Green River, Ill.....		do	
Lock 27, Green River, Ill.....		do	
Lock 28, Colona, Ill.....		Oct. 24, 1907	
Lock 29, Colona, Ill.....		do	
Lock 35 (guard), 1 mile east of Milan.....		Apr. 17, 1895	
Lock 36, 1½ miles west of Milan.....		do	
Lock 37, 3½ miles west of Milan.....		do	
Guard Lock, Rock Falls, Ill.....			
Rock Falls, Ill. (in Rock River).....			
Galena River, Galena, Ill.....	213,088.74	Mar. —, 1894	
Osage River, Mo., 7 miles from mouth.....	5,024.58	July 1, 1912	
<b>Cumberland River:</b>			
Lock A, Fox Bluff, Tenn.....	354,778.40	June 26, 1905	
Lock 1, Nashville, Tenn.....			
Lock 2, Madison, Tenn.....			
Lock 3, Hendersonville, Ky.....			
Lock 4, Gallatin, Tenn.....			
Lock 5, Lebanon, Tenn.....			
Lock 6, Hartsville, Tenn.....			
Lock 7, Carthage, Tenn.....			
Lock 21, Burnside, Ky.....			
Lock B.....			Near Hickory Point, Tenn.
Lock C.....			Near Sailors Rest, Tenn.
Lock D.....			Near Dover, Tenn.
Lock E.....			Near Canton, Ky.
Lock F.....			Near Eddyville, Ky.
<b>Tennessee River:</b>			
Lock.....			
Do.....			
Lock A, Elk River Shoals.....	1,310,690.01	— —, 1890	Caney Creek Shoals.
Lock B, Elk River Shoals.....			Crow Creek Island, Tenn.
Locks 1-9, Muscle Shoals, Tenn.....			
Lock, Colbert Shoals.....	46,651.33	Nov. —, 1911	
Lock.....			Hales Bar.*

\* Purchased by the United States. This amount includes purchase price of \$100,000.

\* This is a cooperative construction, the United States to furnish only a part of the work.



TABLE NO. 2.—Statement showing total cost of maintenance to June 30, 1913, date of completion, and locks and dams now under construction by the Federal Government, called for by Senate resolution of July 13, 1914—Continued.

Stream and location.	Cost of maintenance to June 30, 1913.	Date of completion.	Locks and dams now under construction at—
<b>Ohio River:</b>			
Lock 1, West Bellevue, Pa.....	\$1,373,695.93	Oct. 7, 1885	Midland, Pa. New Cumberland, W. Va. Steubenville, Ohio.
Lock 2, Coraopolis, Pa.....		Oct. 13, 1906	
Lock 3, Glen Osborne, Pa.....		Feb. 1, 1908	
Lock 4, Legionville, Pa.....		.....do.....	
Lock 5, Rochester, Pa.....		Nov. 21, 1907	
Lock 6, Merrill, Pa.....		Aug. 3, 1904	
Lock 8, Kenilworth, W. Va.....		July 14, 1911	
Lock 7.....	108,019.58	.....do.....	Near Wheeling, W. Va. Woodland, W. Va. Near New Martinsville, W. Va. Bens Run, W. Va. Near Marietta, Ohio. Little Hocking, Ohio. Belleville, W. Va. Racine, Ohio. West Huntington, W. Va. Normal, Ky. Near Portsmouth, Ohio. Near Point Pleasant, Ohio.
Lock 9.....		.....do.....	
Lock 10.....		Aug. 1, 1911	
Lock 11, Brilliant, Ohio.....		.....do.....	
Lock 13, McMechen, Ohio.....		May 1, 1910	
Lock 18, Vienna, W. Va.....		Aug. 1, 1912	
Lock 26, Hogsett, W. Va. <sup>1</sup> .....		.....do.....	
Lock 12.....	49,561.90	.....do.....	Near Vevay, Ind. Louisville, Ky. New Amsterdam, Ind. Near Henderson, Ky.
Lock 14.....		.....do.....	
Lock 15.....		.....do.....	
Lock 16.....		.....do.....	
Lock 17.....		.....do.....	
Lock 19.....		.....do.....	
Lock 20.....		.....do.....	
Lock 24.....	3,563,073.46	.....do.....	Near McKeesport, Pa.
Lock 28.....		.....do.....	
Lock 29.....		.....do.....	
Lock 31.....		.....do.....	
Lock 35.....		.....do.....	
Lock 37, Fernbank, Ohio.....		Jan. 1, 1911	
Lock 39.....		.....do.....	
Lock 41.....	410,640.33	.....do.....	Near McKeesport, Pa.
Lock 43.....		.....do.....	
Lock 48.....		.....do.....	
<b>Monongahela River, Pa.:</b>			
Lock 1, Pittsburgh, Pa.....	3,563,073.46	July 7, 1897	Near McKeesport, Pa.
Lock 2, Braddock, Pa.....		.....do.....	
Lock 3, Elizabeth, Pa.....		.....do.....	
Lock 4, North Charleroi, Pa.....		.....do.....	
Lock 5, Brownsville, Pa.....		.....do.....	
Lock 6, Rices Landing, Pa.....		.....do.....	
Lock 7, near Geneva, Pa.....		.....do.....	
Lock 8, Big Dunkard Creek, Pa.....		Nov. 8, 1889	
Lock 9, Hoards Rock, W. Va.....		—, 1879	
Lock 10, Morgantown, Va.....		Jan. —, 1904	
Lock 11, Uffington, W. Va.....		.....do.....	
Lock 12, near Little Falls, W. Va.....		.....do.....	
Lock 13, near Little Falls, W. Va.....		.....do.....	
Lock 14, Lowsville, W. Va.....		.....do.....	
Lock 15, Hoult, W. Va.....		.....do.....	
<b>Allegheny River:</b>			
Lock 1, Pittsburgh, Pa.....	410,640.33	Jan. 1, 1903	Near McKeesport, Pa.
Lock 2, Aspinwall, Pa.....		Nov. 10, 1906	
Lock 3, Springdale, Pa.....		Nov. 29, 1904	
<b>Youghiogheny River, Pa., Lock 1.....</b>			
<b>Kanawha River, W. Va.:</b>			
Lock 2, Montgomery, W. Va.....	1,361,700.36	—, 1887	Near McKeesport, Pa.
Lock 3, Riverside, W. Va.....		—, 1882	
Lock 4, Dickinson, W. Va.....		—, 1880	
Lock 5, Marmet, W. Va.....		—, 1880	
Lock 6, Charleston, W. Va.....		—, 1886	
Lock 7, St. Albans, W. Va.....		—, 1893	
Lock 8, Winfield, W. Va.....		—, 1893	
Lock 9, Woods, W. Va.....		—, 1898	
Lock 10, Robertsburg, W. Va.....		—, 1898	
Lock 11, Point Pleasant, W. Va.....		—, 1898	
<b>Little Kanawha River, W. Va.:</b>			
Lock 1, Parkersburg, W. Va.....	116,070.72	Nov. 1, 1905 <sup>2</sup>	Near McKeesport, Pa.
Lock 2, Slate, W. Va.....		.....do. <sup>2</sup> .....	
Lock 3, Elizabeth, W. Va.....		.....do. <sup>2</sup> .....	
Lock 4, Palestine, W. Va.....		.....do. <sup>2</sup> .....	
Lock 5, Ivan, W. Va.....		—, 1891	

<sup>1</sup> This dam is now being reconstructed.<sup>2</sup> Date of purchase of Locks 1-4 by the United States.

TABLE No. 2.—Statement showing total cost of maintenance to June 30, 1913, date of completion, and locks and dams now under construction by the Federal Government, called for by Senate resolution of July 13, 1914—Continued.

Stream and location.	Cost of main- tenance to June 30, 1913.	Date of com- pletion.	Locks and dams now under construction at—
<b>Kentucky River:</b>			
Lock 1, Carrollton, Ky.....	\$2,342,346.70	—, 1884 <sup>1</sup>	Evelyn, Ky. Heidelberg, Ky.
Lock 2, Lockport, Ky.....		do.....	
Lock 3, Gest, Ky.....		do.....	
Lock 4, Frankfort, Ky.....		do.....	
Lock 5, Tyrone, Ky.....		do.....	
Lock 6, Salvisa, Ky.....		—, 1891	
Lock 7, High Bridge, Ky.....		—, 1897	
Lock 8, Hickman, Ky.....		—, 1900	
Lock 9, Valley View, Ky.....		—, 1903	
Lock 10, Ford, Ky.....		—, 1904	
Lock 11, College Hill, Ky.....		—, 1906	
Lock 12, Irvine, Ky.....		—, 1910	
Lock 13.....			
Lock 14.....			
<b>Muskingum River, Ohio:</b>			
Lock 1, Marietta, Ohio.....	2,024,285.37	—, 1890	
Lock 2, 5.75 miles above mouth.....		—, 1887	
Lock 3, 13.87 miles above mouth.....		—, 1889	
Lock 4, 24.71 miles above mouth.....		—, 1887	
Lock 5, 32.97 miles above mouth.....		—, 1887	
Lock 6, 39.11 miles above mouth.....		—, 1891	
Lock 7, McConnellsville, Ohio.....		—, 1891	
Lock 8, 56 miles above mouth.....		—, 1891	
Lock 9, 66.84 miles above mouth.....		—, 1889	
Lock 10, Zanesville, Ohio.....		—, 183	
Lock 11, Dresden, Ohio.....		—, 1911	
<b>Big Sandy River, W. Va. and K.:</b>			
Lock 1, Catlettsburg, Ky.....	242,125.00	—, 1905	
Lock 2, Pritchard, W. Va.....		—, 1905	
Lock 3, Louisa, Ky.....		—, 1897	
Tug Fork, Big Sandy River.....	2,732,248.75	—, 1910	
Levisa Fork, Big Sandy River.....		—, 1910	
Louisville & Portland Canal.....		July 1, 1880 <sup>2</sup>	
Wabash River, Ind. and Ill.....	82,332.95	Nov. —, 1893	
<b>Green River, Ky.:</b>			
Lock 1, Spottsville, Ky.....	31,807,116.77	Dec. 11, 1888 <sup>2</sup>	
Lock 2, Rumsey, Ky.....		do. <sup>2</sup>	
Lock 3, Rochester, Ky.....		do. <sup>2</sup>	
Lock 4, Woodbury, Ky.....		do. <sup>2</sup>	
Lock 5, Glenmore, Ky.....			
Lock 6, Brownsville, Ky.....			
Barren River, Greencastle, Ky.....	20,880.47	Dec. 11, 1888 <sup>2</sup>	
Rough River, Ky., Livermore.....		Dec. 12, 1896	
<b>Fox River, Wis.:</b>			
Lock 1, De Pere, Wis.....	1,629,279.62	(4)	
Lock 2, Little Kaukauna, Wis.....			
Lock 3, Rapide Croche, Wis.....			
Lock 4, Kaukauna, fifth.....			
Lock 5, Kaukauna, fourth.....			
Lock 6, Kaukauna, third.....			
Lock 7, Kaukauna, second.....			
Lock 8, Kaukauna, first and guard.....			
Lock 9, combined lower Little Chute.....			
Lock 10, combined upper Little Chute.....			
Lock 11, Little Chute, second.....			
Lock 12, Little Chute, first.....			
Lock 13, Cedars.....			
Lock 14, Appleton, fourth.....			
Lock 15, Appleton, third.....			
Lock 16, Appleton, second.....			
Lock 17, Appleton, first.....			
Lock 18, Menasha.....			
Lock 19, Eureka.....			
Lock 20, Berlin.....			
Lock 21, White River.....			
Lock 22, Princeton.....			
Lock 23, Grand River.....			
Lock 24, Montello.....			
Lock 25, Governor Bend.....			
Lock 26, Fort Winnebago.....			
Lock 27, Portage.....			

<sup>1</sup> Date when placed under indefinite appropriation for operating and care.<sup>2</sup> Date acquired by United States.<sup>3</sup> This amount includes purchase price of \$135,000.<sup>4</sup> Acquired by United States in 1872.

TABLE NO. 2.—Statement showing total cost of maintenance to June 30, 1913, date of completion, and locks and dams now under construction by the Federal Government, called for by Senate resolution of July 13, 1914—Continued.

Stream and location.	Cost of maintenance to June 30, 1913.	Date of completion.	Locks and dams now under construction at—
Illinois River:			
Kampsville, Ill. ....	\$133,475.33	Sept. 30, 1893	
La Grange, Ill. ....	171,699.93	Oct. 21, 1889	
St. Marys River, Mich.:			
Weitzel Lock at the Sault. ....	2,264,402.92	— —, 1881	
Poe Lock at the Sault. ....		Aug. 3, 1896	
Third Lock. ....			Sault Ste. Marie, Mich.
Fourth Lock. ....			Do.
Black Rock Harbor, N. Y. ....			Buffalo, N. Y.
Columbia River, Oreg.:			
Cascades Canal. ....	165,319.04	Nov. 5, 1896	
Dalles-Celilo Canal—			
Tandem Lock. ....			Big Eddy, Oreg.
Five-Mile Lock. ....			Head of Five-Mile Rapids, Oreg.
Ten-Mile Lock. ....			Head of Ten-Mile Rapids, Oreg.
Celilo Lock. ....			Celilo, Oreg.
Willamette River, Oreg. ....			Willamette Falls, Oreg.
Yamhill River, Oreg. ....	41,592.87	— —, 1900	Lafayette, Oreg.
Puget Sound—Lake Washington waterway. ....			Entrance to Salmon Bay, Wash.

